

I claim:

1) A molar tube useful in orthodontic dentistry comprising:

- a) a base portion having a first face portion that is adapted to be adhered to a molar tooth, a second face portion, a mesial-distal length dimension, and a vertical dimension; and
- b) a body portion disposed on said second face portion of said base portion, said body portion comprising an upper portion and a lower portion, and wherein said body portion further comprises:

- i) a lumen that is adapted to receive an archwire, wherein said lumen has an axis which substantially coincides with said mesial-distal length dimension of said base portion;
- ii) a boss comprising a threaded bore that is adapted to receive a setscrew, said threaded bore having an axis,

wherein said axis of said threaded bore intersects with said mesial-distal length dimension to form an angle of any degree between 15 degrees and 55 degrees, and wherein the axis of the threaded bore intersects with the vertical dimension of the molar tube to form an angle of any degree between about 60 and 120 degrees.

2) A molar tube according to claim 1 wherein said lumen has a cross section selected from the group consisting of: square, rectangular, or circular.

3) A molar tube according to claim 1 wherein said base portion and said body portion are collectively part of a single casting.

4) A molar tube according to claim 1 wherein said upper portion of said body portion  
5 further comprises a channel having a length dimension that coincides with said mesial-distal length dimension of said base portion, and wherein said channel is semi-circular in cross section.

5) A molar tube according to claim 1 wherein said lower portion of said body portion  
10 further comprises a channel having a length dimension that coincides with said mesial-distal length dimension of said base portion, and wherein said channel is semi-circular in cross section.

6) A molar tube according to claim 1 wherein said lower portion of said body portion  
15 comprises a hook arm, which is useful as an anchor point for elastics.

7) A molar tube according to claim 1 further comprising a setscrew threadedly engaged within said threaded bore.

20 8) A molar tube according to claim 1 wherein said axis of said threaded bore intersects with said mesial-distal length dimension to form an angle of about 45 degrees.

9) A molar tube useful in orthodontic dentistry comprising:

a) a base portion having a first face portion that is adapted to be adhered to a molar tooth, a second face portion, a mesial-distal length dimension, and a vertical dimension; and

5 b) a body portion disposed on said second face portion of said base portion, said body portion comprising a upper portion and a lower portion, and wherein said body portion further comprises:

i) a first lumen having an axis which substantially coincides with said mesial-distal length dimension of said base portion;

10 ii) a second lumen having an axis which substantially coincides with said mesial-distal length dimension of said base portion;

iii) a boss comprising a threaded bore that is adapted to receive a setscrew, said threaded bore having an axis which is skew to at least one of said axis of said first lumen or said axis of said second lumen;

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wherein said axis of said threaded bore intersects with said mesial-distal length dimension to form an angle of any degree between 15 degrees and 55 degrees, and wherein the axis of the threaded bore intersects with the vertical dimension of the molar tube to form an angle of any degree between about 60 and 120 degrees.

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10) A molar tube according to claim 9 wherein said first lumen has a cross section selected from the group consisting of: square, rectangular, or circular.

11) A molar tube according to claim 9 wherein said second lumen has a cross section selected from the group consisting of: square, rectangular, or circular.

5 12) A molar tube according to claim 9 wherein the cross section of said first lumen is the same as the cross section of said second lumen.

13) A molar tube according to claim 9 wherein the cross section of said first lumen is different from the cross section of said second lumen.

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14) A molar tube according to claim 9 wherein the cross section of said first lumen is selected from the group consisting of: square or rectangular; and wherein the cross section of said second lumen is selected from the group consisting of: circular or elliptical.

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15) A molar tube according to claim 9 wherein said base portion and said body portion are collectively part of a single casting.

16) A molar tube according to claim 9 wherein said upper portion of said body portion  
20 further comprises a channel having a length dimension that coincides with said mesial-distal length dimension of said base portion, and wherein said channel is semi-circular in cross section.

17) A molar tube according to claim 9 wherein said lower portion of said body portion further comprises a channel having a length dimension that coincides with said mesial-distal length dimension of said base portion, and wherein said channel is semi-circular in cross section.

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18) A molar tube according to claim 9 wherein said lower portion of said body portion comprises a hook arm, which is useful as an anchor point for elastics.

19) A molar tube according to claim 9 further comprising a setscrew threadedly engaged  
10 within said threaded bore.

20) A molar tube according to claim 9 wherein said axis of said threaded bore intersects with said mesial-distal length dimension to form an angle of about 45 degrees.

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